

# IKEA of Sweden AB

## TEST REPORT

**SCOPE OF WORK**

EMC TESTING–E2010A LIVBOJ

**REPORT NUMBER**

200708152GZU-002

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## TEST REPORT

Applicant Name & : IKEA of Sweden AB  
Address : Box 702, SE-343 81 Älmhult, Sweden  
Manufacturing Site1 : BeiHai Innotech Technology Co., Ltd  
Building No. A02, CECT Industrial Park, BeiHai Industrial Zone, BeiHai,  
Guangxi. 536000 CHINA  
Manufacturing Site2 : NanChang Innotech Homeshmart Co., Ltd  
1st to 5th floor, 2-1#, Nanchang Small and Medium-sized Enterprises  
Entrepreneurship Incubation Base (Phase II), Guowei Industrial Park,  
No. 669 Huangtang E Rd, Linkong Economic Zone, Nanchang, Jiangxi,  
China  
Intertek Report No: 200708152GZU-002  
FCC ID: FHO-E2010A

## Test standards

**47 CFR PART 1, Subpart I, Section 1.1310**  
**KDB 680106 D01 RF Exposure Wireless Charging App v03r01**

## Sample Description

Product : Wireless Charger  
Model No. : E2010A LIVBOJ  
Electrical Rating : INPUT: 5V  2A  
OUTPUT: 5W Max  
Serial No. : Not Labeled  
Date Received : 08 July 2020  
Date Test : 08 July 2020 to 11 December 2020  
Conducted

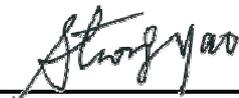
Prepared and Checked By

  
\_\_\_\_\_

Jed Guo

Engineer

Approved By:

  
\_\_\_\_\_

Strong Yao

Manager

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## TEST REPORT

### 1.0 TEST RESULT SUMMARY

Classification of EUT: Class B

Test Item	Standard	Result
EMF	47 CFR PART 1, Subpart I, Section 1.1310	PASS

Remark:

When determining the test results, measurement uncertainty of tests has been considered.

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### 2.0 General Description

#### 2.1 Product Description

Operating Frequency	110.3-148KHz
Type of Modulation:	ASK
Antenna Type	Inductive loop coil antenna
Antenna gain:	0 dBi
Power Supply:	Input: 5Vdc, 2A, Powered by adaptor ICPSW5-10NA-1 provided by Intertek; Output: 5W Max
Power cord:	N/A

#### 2.2 Test Facility

Room102/104, No 203, KeZhu Road, Science City, GETDD Guangzhou, China

A2LA Certificate Number 0078.10

Intertek Testing Services Shenzhen Ltd. Guangzhou Branch is accredited by A2LA and Listed in FCC website. FCC accredited test labs may perform both Certification testing under Parts 15 and 18 and Declaration of Conformity testing.

#### 2.3 EUT Exercising Software

N/A

#### 2.4 Special Accessories

N/A

#### 2.5 Equipment Modification

Any modifications installed previous to testing by IKEA of Sweden AB will be incorporated in each production model sold / leased in the United States.

No modifications were installed by Intertek Testing Services Shenzhen Ltd. Guangzhou Branch.

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**2.6 Support Equipment List and Description**

This product was tested with corresponding support equipment as below:

Support Equipment:

Equipment	Model No.	Rating	Supplier
Mobile phone	IPhone 8	--	Intertek

**Remark:** the iphone 8 was one of typical client devices, it's selected such that the EUT was fully exercised at maximum power from its transmitter. It will not be sold together.

To investigate the maximum EMI emission characteristics generates from EUT, the test system was pre-scanning tested based on the consideration of following EUT operation mode or test configuration mode which possible have effect on EMI emission level. Each of these EUT operation mode(s) or test configuration mode(s) mentioned above evaluated respectively

Pretest mode	Description	
Standby Mode	kept transmitting continuously	
Charging Mode	CH: Low	Mobile phone is charging at 1% battery power, 50% and 99% battery power respectively, keep transmitting continuously
	CH: Middle	
	CH: High	

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**3.0 EMF TEST**

**3.1 Standard Requirement**

Systems operating under the provisions of this section shall be operated in a manner that ensures that the public is not exposed to radio frequency energy level in excess limit for maximum permissible exposure. In accordance with 47 CFR FCC Part 2 Subpart J, section 2.1091 this device has been defined as a mobile device whereby a distance of 0.1m normally can be maintained between the user and the device.

**(a) Limits for Occupational / Controlled Exposure**

Frequency Range (MHz)	Electric Field Strength (E) (V/m)	Magnetic Field Strength (H) (A/m)	Power Density (S)(mW/cm <sup>2</sup> )	Averaging Times  E  <sup>2</sup> ,  H  <sup>2</sup> or S (minutes)
0.3-3.0	614	1.63	(100)*	6
3.0-30	1842/f	4.89/f	(900/f)*	6
30-300	61.4	0.163	1.0	6
300-1500	--	--	F/300	6
1500-100000	--	--	5	6

**(b) Limits for General Population / Uncontrolled Exposure**

Frequency Range (MHz)	Electric Field Strength (E) (V/m)	Magnetic Field Strength (H) (A/m)	Power Density (S)(mW/cm <sup>2</sup> )	Averaging Times  E  <sup>2</sup> ,  H  <sup>2</sup> or S (minutes)
0.3-1.34	614	1.63	(100)*	30
1.34-30	824/f	2.19/f	(180/f)*	30
30-300	27.5	0.073	0.2	30
300-1500	--	--	F/1500	30
1500-100000	--	--	1.0	30

Note: f=frequency in MHz; \*Plane-wave equivalent power density

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**3.2 Test Data**

Input Voltage: 120V/60Hz  
Ambient Condition: 24°C, 50%RH

Test distance: 15 cm surrounding the device, and 20 cm away from the surface from the coil.

H-Filed Strength:

Test Position	Probe Measure Result (A/m)			50% Limit (A/m)	Limit (A/m)
	Mobile in 1% battery power	Mobile in 50% battery power	Mobile in 99% battery power		
Side 1	0.045	0.038	0.034	0.815	1.63
Side 2	0.030	0.033	0.031	0.815	1.63
Side 3	0.031	0.032	0.032	0.815	1.63
Side 4	0.038	0.036	0.034	0.815	1.63
Top	0.048	0.042	0.041	0.815	1.63

**4.0 Test Equipment List**

Equip. No.	Equipment	Model	Manufacturer	Cal. date	Due date
EM007-03	Exposure Level Tester	ELT-400	NARDA	24/02/2020	23/02/2021

\*\*\*\*\*End of the test report\*\*\*\*\*